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SUPPORTING INFORMATION

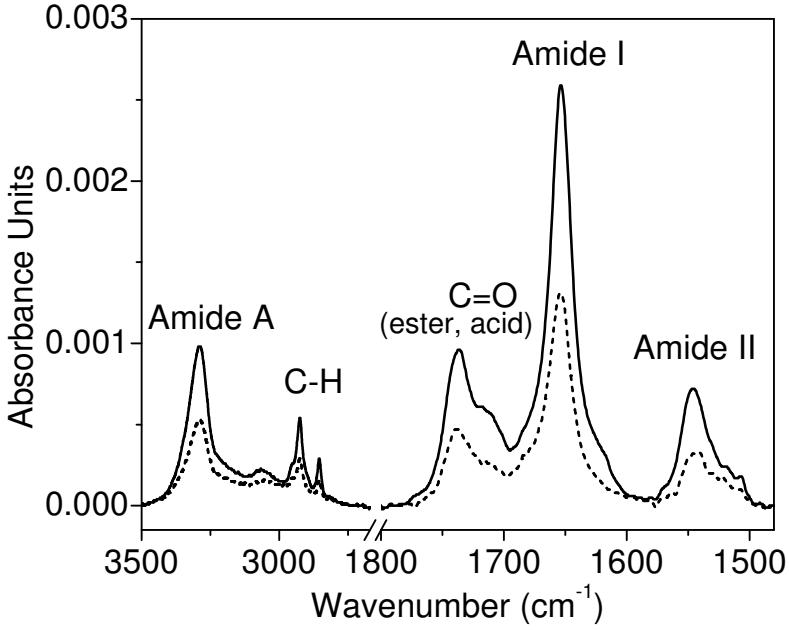

Figure 1. Transmission FT-IR spectra for an LB monolayer of CoPo_63_39 transferred at 40 mN/m onto a silicon substrate before (monolayers on both sides of the substrate, solid line) and after one-sided solvent treatment (front-side monolayer, short-dashed line).

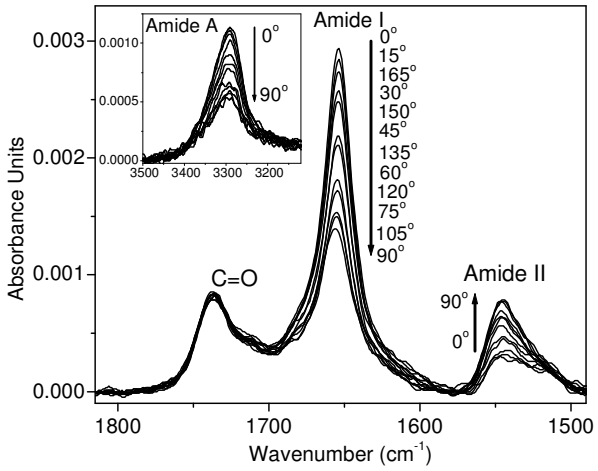

Figure 2. Transmission FT-IR spectra at various polarization angles (0-180^{o} in steps of 15^{o}) for a two-sided LB monolayer of CoPo_63_39 transferred at 40 mN/m onto a silicon substrate at the same dipping position (in the X-axis direction) as for the previous transfer.

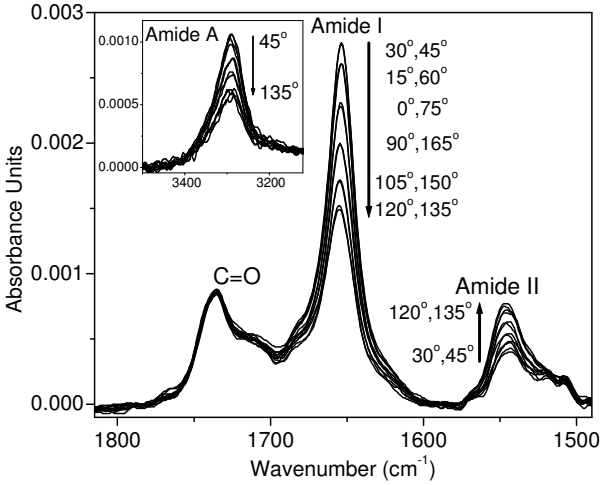

Figure 3. Transmission FT-IR spectra at various polarization angles (0-180^{o} in steps of 15^{o}) for a two-sided LB monolayer of CoPo_63_39 transferred at 40 mN/m onto a silicon substrate with the dipping position (in the X-axis direction) at 25 mm away from that of the previous transfer.